

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards



SDS Revision: 1.1

SDS Revision Date: 4/13/2018

1. PRODUCT & COMPANY IDENTIFICATION

| | | |
|-----|------------------------|--|
| 1.1 | Product Name: | OPI POWDER PERFECTION DIPPING SYSTEM: ACTIVATOR |
| 1.2 | Chemical Name: | NA |
| 1.3 | Synonyms: | NA |
| 1.4 | Trade Names: | DPT20 |
| 1.5 | Product Use: | Professional or Sundry Use Only |
| 1.6 | Distributor's Name: | OPI Products, Inc. |
| 1.7 | Distributor's Address: | 4500 Park Granada Blvd, Calabasas, CA 91302 USA |
| 1.8 | Emergency Phone: | CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377) |
| 1.9 | Business Phone / Fax: | Tel: +1 (818) 999-5112 |

2. HAZARDS IDENTIFICATION

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|-----|------------------------|--|---|
| 2.1 | Hazard Identification: | <p>This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of NOHSC: 1088 (1999) and ADG Code (Australia).</p> <p>DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.</p> <p>Classification: Flam. Liq. 2; Eye Irrit. 2; STOT SE 3</p> | |
| 2.2 | Label Elements: | <p>Hazard Statements (H): H225 – Highly flammable liquid and vapor. H319 – Causes serious eye irritation. H336 – May cause drowsiness or dizziness.</p> <p>Precautionary Statements (P): P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 – Keep container tightly closed. P261 – Avoid breathing dust/fume/vapor. P264 – Wash exposed skin areas thoroughly with soap and water after handling. P271 – Use only outdoors or in a well-ventilated area. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 – Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention. P370+P378 – In case of fire use CO₂, Halon (if permitted), Dry Chemical, Foam, as authorized, to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P 405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p> |   |
| 2.3 | Other Warnings: | WARNING! This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. KEEP OUT REACH OF CHILDREN | |

3. COMPOSITION & INGREDIENT INFORMATION

| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | EXPOSURE LIMITS IN AIR (mg/m ³) | | | | | | | | | OTHER |
|---|----------|-----------|------------|---------|---|------|--------|---------|---------|------|------|------|----------|-------|
| | | | | | ACGIH | | NOHSC | | | OSHA | | | | |
| | | | | | ppm | | ppm | | | ppm | | | | |
| | | | | | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | | |
| ETHYL ACETATE | 141-78-6 | AH5425000 | 201-550-6 | 80-100 | 400 | 400 | 200 | 400 | NF | NA | NA | 2000 | 400 TWA | |
| Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 | | | | | | | | | | | | | | |
| METHYL PROPYL KETONE | 107-87-9 | SA7875000 | 203-528-1 | 0.0-1.0 | 150 | NA | 150 | NF | NF | 200 | 250 | NA | | |
| Flam. Liq. 2; Acute Tox. 4; H225, H302 | | | | | | | | | | | | | | |
| METHYL ISOBUTYL KETONE | 108-10-1 | SA9275000 | 203-550-1 | 0.0-1.0 | 20 | NA | 20 | NF | NF | 50 | 75 | NA | | |
| Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2A; Carc 2; STOT SE 3; H225, H319, H332, H335, H351 | | | | | | | | | | | | | | |
| DIMETHYLTOLYLAMINE | 99-97-8 | XU5803000 | 202-805-4 | 0.0-0.1 | 0.50 | NA | 0.50 | NF | NF | 0.50 | NA | NA | USA WEEL | |
| Flam Liq. 4; Acute Tox. 3; Carc. 2; STOT RE 2; Chronic Aq. Tox. 3; H227, H301+H311+H331, H351, H373, H412 | | | | | | | | | | | | | | |

4. FIRST AID MEASURES

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| 4.1 | First Aid: | <p>Ingestion: If ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.</p> <p>Eyes: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.</p> <p>Skin: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.</p> <p>Inhalation: Remove victim to fresh air.</p> |
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4. FIRST AID MEASURES

| | | | | | | | | | | | | | | | | | |
|-----------------------------|--|---|---------------|--|----------|---------------------|--|----------|-------------------------|--|----------|-----------------------------|--|----------|-------------|-------------|--|
| 4.2 | Effects of Exposure: | <p><u>Ingestion:</u> If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.</p> <p><u>Eyes:</u> Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p><u>Skin:</u> May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.</p> <p><u>Inhalation:</u> Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 3 (Composition and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).</p> | | | | | | | | | | | | | | | |
| 4.3 | Symptoms of Overexposure: | Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. | | | | | | | | | | | | | | | |
| 4.4 | Acute Health Effects: | Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. | | | | | | | | | | | | | | | |
| 4.5 | Chronic Health Effects: | None known. | | | | | | | | | | | | | | | |
| 4.6 | Target Organs: | Eyes, Skin, Respiratory System. | | | | | | | | | | | | | | | |
| 4.7 | Medical Conditions Aggravated by Exposure: | Pre-existing skin, eye and respiratory disorders. | | | | | | | | | | | | | | | |
| | | <table> <tr> <td colspan="2">HEALTH</td><td>1</td></tr> <tr> <td colspan="2">FLAMMABILITY</td><td>3</td></tr> <tr> <td colspan="2">PHYSICAL HAZARDS</td><td>0</td></tr> <tr> <td colspan="2">PROTECTIVE EQUIPMENT</td><td>B</td></tr> <tr> <td>EYES</td><td>SKIN</td><td></td></tr> </table> | HEALTH | | 1 | FLAMMABILITY | | 3 | PHYSICAL HAZARDS | | 0 | PROTECTIVE EQUIPMENT | | B | EYES | SKIN | |
| HEALTH | | 1 | | | | | | | | | | | | | | | |
| FLAMMABILITY | | 3 | | | | | | | | | | | | | | | |
| PHYSICAL HAZARDS | | 0 | | | | | | | | | | | | | | | |
| PROTECTIVE EQUIPMENT | | B | | | | | | | | | | | | | | | |
| EYES | SKIN | | | | | | | | | | | | | | | | |

5. FIREFIGHTING MEASURES

| | | | |
|-----|---------------------------|---|--|
| 5.1 | Fire & Explosion Hazards: | DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. |  |
| 5.2 | Extinguishing Methods: | CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized. | |
| 5.3 | Firefighting Procedures: | <p>This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container.</p> <p>First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.</p> | |

6. ACCIDENTAL RELEASE MEASURES

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|-----|---------|---|
| 6.1 | Spills: | <p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.</p> <p>For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.</p> <p>For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water.</p> |
|-----|---------|---|

7. HANDLING & STORAGE INFORMATION

| | | |
|-----|---------------------------|--|
| 7.1 | Work & Hygiene Practices: | Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product. |
| 7.2 | Storage & Handling: | Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (See Section 10). |
| 7.3 | Special Precautions: | Open containers slowly on a stable surface. Keep container tightly closed when not in use. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. |

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8. EXPOSURE CONTROLS & PERSONAL PROTECTION

| 8.1 | Exposure Limits: ppm (mg/m ³) | CHEMICAL NAME(S) | ACGIH | | NOHSC | | | OSHA | | | OTHER |
|-----|--|---|-------|------|--------|---------|---------|------|------|------|----------|
| | | | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | |
| | | ETHYL ACETATE | 400 | 400 | 200 | 400 | NF | NA | NA | 2000 | 400 TWA |
| | | METHYL PROPYL KETONE | 150 | NA | 150 | NF | NF | 200 | 250 | NA | |
| | | METHYL ISOBUTYL KETONE | 20 | NA | 20 | NF | NF | 50 | 75 | NA | |
| | | DIMETHYLTOLYLAMINE | 0.50 | NA | 0.50 | NF | NF | 0.50 | NA | NA | USA WEEL |
| 8.2 | Ventilation & Engineering Controls: | When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. | | | | | | | | | |
| 8.3 | Respiratory Protection: | No special respiratory protection is required under typical circumstances of use or handling. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. | | | | | | | | | |
| 8.4 | Eye Protection: | Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166. | | | | | | | | | |
| 8.5 | Hand Protection: | If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the EU member states. | | | | | | | | | |
| 8.6 | Body Protection: | No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. | | | | | | | | | |

9. PHYSICAL & CHEMICAL PROPERTIES

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|------|---|---|
| 9.1 | Appearance: | Clear liquid, colorless to pale yellow. |
| 9.2 | Odor: | Strong fruity odor |
| 9.3 | Odor Threshold: | NA |
| 9.4 | pH: | NA |
| 9.5 | Melting Point/Freezing Point: | NA |
| 9.6 | Initial Boiling Point/Boiling Range: | 77 °C (170 °F) to 78 °C (172 °F) |
| 9.7 | Flashpoint: | 1.11 °C (30 °F) TCC |
| 9.8 | Upper/Lower Flammability Limits: | LEL 2 / UEL 11.4 |
| 9.9 | Vapor Pressure: | 73 mmHg at 20 °C (68 °F) |
| 9.10 | Vapor Density: | 0.9 |
| 9.11 | Relative Density: | NA |
| 9.12 | Solubility: | Slightly Soluble |
| 9.13 | Partition Coefficient (log P _{ow}): | NA |
| 9.14 | Autoignition Temperature: | 427 °C (800.6 °F) |
| 9.15 | Decomposition Temperature: | NA |
| 9.16 | Viscosity: | < 5 cPs |
| 9.17 | Other Information: | Evaporation Rate: 4.5 (n-Butyl Acetate=1); VOC 900.00 g/L |

10. STABILITY & REACTIVITY

| | | |
|------|-----------------------------------|---|
| 10.1 | Stability: | Stable under ambient conditions when stored properly (see Section 7, Storage and Handling). |
| 10.2 | Hazardous Decomposition Products: | If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide gases (e.g., CO, CO ₂). |
| 10.3 | Hazardous Polymerization: | May occur, if exposed to extremely high temperatures. |
| 10.4 | Conditions to Avoid: | Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame. |
| 10.5 | Incompatible Substances: | This product is incompatible with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., lye, potassium hydroxide). |

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11. TOXICOLOGICAL INFORMATION

| | | | | |
|------|------------------------------|--|-----------------|----------------|
| 11.1 | Routes of Entry: | Inhalation: NO | Absorption: YES | Ingestion: YES |
| 11.2 | Toxicity Data: | This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below: <u>Ethyl Acetate</u> : LD ₅₀ (oral, rat) = 5,620 mg/kg; LD ₅₀ (oral, mouse) = 4,100 mg/kg; LC ₅₀ (inh-6h, rat) = 16,000 ppm; <u>Methyl Propyl Ketone</u> : LD ₅₀ (oral, rat) = 1,600-3,200 mg/kg; LC ₅₀ (inh-4h, rat) >25.5 mg/l; <u>MIBK</u> : LD ₅₀ (oral, rat) = 2,080 mg/kg; LC ₅₀ (inh-4h, rat) 8.2-16.4 mg/kg | | |
| 11.3 | Acute Toxicity: | See Section 4.4 | | |
| 11.4 | Chronic Toxicity: | See Section 4.5 | | |
| 11.5 | Suspected Carcinogen: | This product contains <u>Ethyl Acetate</u> which are not carcinogenic to humans, but are listed as Group 3 carcinogens by the IARC. This product contains Dimethyltolylamine - IARC listed Group 2B: Possibly carcinogenic to humans. WARNING: This product can expose you to chemicals including Methyl Isobutyl Ketone and Dimethyltolylamine, which are known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov . | | |
| 11.6 | Reproductive Toxicity: | WARNING: This product can expose you to chemicals including Methyl Isobutyl Ketone and Dimethyltolylamine, which are known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov . | | |
| | Mutagenicity: | This product is not reported to produce mutagenic effects in humans. | | |
| | Embryotoxicity: | This product is not reported to produce embryotoxic effects in humans. | | |
| | Teratogenicity: | This product is not reported to produce teratogenic effects in humans. | | |
| | Reproductive Toxicity: | WARNING: This product can expose you to chemicals including Methyl Isobutyl Ketone and Dimethyltolylamine, which are known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov . | | |
| 11.7 | Irritancy of Product: | See Section 4.2 | | |
| 11.8 | Biological Exposure Indices: | NE | | |
| 11.9 | Physician Recommendations: | Treat symptomatically. | | |

12. ECOLOGICAL INFORMATION








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|------|------------------------------|--|
| 12.1 | Environmental Stability: | The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows: <u>Ethyl Acetate</u> : K _{OC} = 0.73. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. |
| 12.2 | Effects on Plants & Animals: | There are no specific data available for this product. |
| 12.3 | Effects on Aquatic Life: | There are no specific data available for this product. |

13. DISPOSAL CONSIDERATIONS

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|------|-------------------------|---|
| 13.1 | Waste Disposal: | Dispose of in accordance with Federal, state and local regulations. |
| 13.2 | Special Considerations: | NA |

14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.



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| 14.1 | 49 CFR (GND): | UN1263, PAINT RELATED MATERIAL, 3, II, (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D – until 01/01/2021 |  |
| 14.2 | IATA (AIR): | UN1263, PAINT RELATED MATERIAL, 3, II, (LTD QTY, IP VOL ≤ 0.5 L); or ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L) |  |
| 14.3 | IMDG (OCN): | UN1263, PAINT RELATED MATERIAL, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) |  |
| 14.4 | TDGR (Canadian GND): | UN1263, PAINT RELATED MATERIAL, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) |  |
| 14.5 | ADR/RID (EU): | UN1263, PAINT RELATED MATERIAL, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) |  |
| 14.6 | SCT (MEXICO): | UN1263, PRODUCTOS PARA PINTURA, 3, II, (CANT. LTDA., (IP VOL ≤ 1.0 L) |  |
| 14.7 | ADGR (AUS): | UN1263, PAINT RELATED MATERIAL, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) |  |

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15. REGULATORY INFORMATION

| | | |
|------|-------------------------------|---|
| 15.1 | SARA Reporting Requirements: | This product contains <u>Ethyl Acetate</u> , and a substance that is subject to SARA Title III, Section 304 reporting. This product contains <u>Methyl-Isobutyl Ketone (MIBK)</u> a substance subject to SARA Title III, Section 311 reporting. |
| 15.2 | SARA TPQ: | There are no specific Threshold Planning Quantities for the components of this product. |
| 15.3 | TSCA Inventory Status: | The components of this product are listed on the TSCA Inventory or are otherwise exempt. |
| 15.4 | CERCLA Reportable Quantity: | <u>Ethyl Acetate</u> : 2,270 kg (5,000 lbs); <u>Methyl-Isobutyl Ketone (MIBK)</u> : 2,270 kg (5,000 lbs) |
| 15.5 | Other Federal Requirements: | This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics). |
| 15.6 | Other Canadian Regulations: | This product has been classified according to the hazard criteria of the CPR and the Safety Data Sheet contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List. WHMIS B2, D2B (Flammable Liquid, Other Toxic Effects)  |
| 15.7 | State Regulatory Information: | <u>Ethyl Acetate</u> is found on the following state criteria lists: CA, DE, MA, MN, NJ, NY, PA, and WA. <u>Methyl Propyl Ketone</u> is found on the following state criteria list: MA, PA and NJ. <u>Methyl-Isobutyl Ketone (MIBK)</u> is found on the following state criteria list: CA, MA, PA and NJ. None of the ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). |
| 15.8 | Other Requirements: |  WARNING: This product can expose you to chemicals including Methyl Isobutyl Ketone and Dimethyltolylamine, which are known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov . |

16. OTHER INFORMATION

| | | |
|------|----------------------|---|
| 16.1 | Other Information: | DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. Use only as directed. Discontinue use if irritation develops. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid breathing dust/fume/vapor. Wash exposed skin areas thoroughly with soap and water after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire use CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized, to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.  WARNING: This product can expose you to chemicals including Methyl Isobutyl Ketone and Dimethyltolylamine, which are known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov . |
| 16.2 | Terms & Definitions: | See last page of this Safety Data Sheet. |
| 16.3 | Disclaimer: | This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & OPI's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. |
| 16.4 | Prepared for: | OPI Products, Inc. 4500 Park Granada Blvd Calabasas, CA 91302 USA Tel: +1 (818) 999-5112 http://www.opi.com |
| 16.5 | Prepared by: | ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com |

O·P·I


ShipMate
 Dangerous Goods
 Training & Consulting

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

| | |
|-------------------|--|
| CAS No. | Chemical Abstract Service Number |
| RTECS No. | Registry of Toxic Effects of Chemical Substances Number |
| EINECS No. | European Inventory of Existing Commercial Chemical Substances Number |

EXPOSURE LIMITS IN AIR:

| | |
|--------------|--|
| ACGIH | American Conference on Governmental Industrial Hygienists |
| IDLH | Immediately Dangerous to Life and Health |
| NOHSC | National Occupational Health and Safety Commission (Australia) |
| OSHA | U.S. Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| STEL | Short Term Exposure Limit |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

FIRST AID MEASURES:

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|------------|--|
| CPR | Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body. |
|------------|--|

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

| | |
|---|-----------------|
| 0 | Minimal Hazard |
| 1 | Slight Hazard |
| 2 | Moderate Hazard |
| 3 | Severe Hazard |
| 4 | Extreme Hazard |

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|----------------------------|
| HEALTH |
| FLAMMABILITY |
| PHYSICAL HAZARDS |
| PERSONAL PROTECTION |

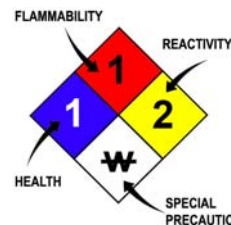
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

| | |
|---------------------------------|---|
| Autoignition Temperature | Minimum temperature required to initiate combustion in air with no other source of ignition |
| LEL | Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source |
| UEL | Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source |

HAZARD RATINGS:

| | |
|----------------|-----------------|
| 0 | Minimal Hazard |
| 1 | Slight Hazard |
| 2 | Moderate Hazard |
| 3 | Severe Hazard |
| 4 | Extreme Hazard |
| ACD | Acidic |
| ALK | Alkaline |
| COR | Corrosive |
| W | Use No Water |
| OX | Oxidizer |
| TREFOIL | Radioactive |



TOXICOLOGICAL INFORMATION:

| | |
|---|---|
| LD₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals |
| LC₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal |
| ppm | Concentration expressed in parts of material per million parts |
| TD₁₀ | Lowest dose to cause a symptom |
| TCLO | Lowest concentration to cause a symptom |
| TD₁₀, LD₁₀, & LD₅₀ or TC, TC₁₀, LC₁₀, & LC₅₀ | Lowest dose (or concentration) to cause lethal or toxic effects |
| IARC | International Agency for Research on Cancer |
| NTP | National Toxicology Program |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| BCF | Bioconcentration Factor |
| TL_m | Median threshold limit |
| log K_{OW} or log K_{OC} | Coefficient of Oil/Water Distribution |

REGULATORY INFORMATION:

| | |
|--------------|--|
| WHMIS | Canadian Workplace Hazardous Material Information System |
| DOT | U.S. Department of Transportation |
| TC | Transport Canada |
| EPA | U.S. Environmental Protection Agency |
| DSL | Canadian Domestic Substance List |
| NDSL | Canadian Non-Domestic Substance List |
| PSL | Canadian Priority Substances List |
| TSCA | U.S. Toxic Substance Control Act |
| EU | European Union (European Union Directive 67/548/EEC) |
| WGK | Wassergefährdungsklassen (German Water Hazard Class) |

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

| | | | | | | | |
|------------|-----------|-----------|----------|------------|------------|-----------|----------|
| | | | | | | | |
| Class A | Class B | Class C | Class D1 | Class D2 | Class D3 | Class E | Class F |
| Compressed | Flammable | Oxidizing | Toxic | Irritation | Infectious | Corrosive | Reactive |

CLP/GHS (1272/2008/EC) PICTOGRAMS:

| | | | | | | | | |
|-----------|-----------|----------|-------------|-----------|-------|--------------------|---------------|-------------|
| | | | | | | | | |
| GHS01 | GHS02 | GHS03 | GHS04 | GHS05 | GHS06 | GHS07 | GHS08 | GHS09 |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive | Toxic | Harmful Irritating | Health Hazard | Environment |

PERSONAL PROTECTION RATINGS:

| | | | |
|----------|--|----------|--|
| A | | G | |
| B | | H | |
| C | | I | |
| D | | J | |
| E | | K | |
| F | | X | Consult your supervisor or SOPs for special handling directions. |

| | | | |
|----------------------|-----------------------------------|----------------------------------|---------------------------|
| | | | |
| Safety Glasses | Splash Goggles | Face Shield & Protective Eyewear | Gloves |
| | | | |
| Boots | Protective Apron | Protective Clothing & Full Suit | Dust Respirator |
| | | | |
| Full Face Respirator | Dust & Vapor Half-Mask Respirator | Full Face Respirator | Airline Hood/Mask or SCBA |

OTHER STANDARD ABBREVIATIONS:

| | |
|----------------|--|
| Carc | Carcinogenic |
| Irrit | Irritant |
| NA | Not Available |
| NR | No Results |
| ND | Not Determined |
| NE | Not Established |
| NF | Not Found |
| SCBA | Self-Contained Breathing Apparatus |
| Sens | Sensitization |
| STOT RE | Specific Target Organ Toxicity – Repeat Exposure |
| STOT SE | Specific Target Organ Toxicity – Single Exposure |